AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. Please cancel claim 2 without prejudice or disclaimer.

Listing of Claims:

1. (Currently amended) A process for the distillation of ionic liquids, which comprises the following steps:

setting a pressure which is not higher than ambient pressure, and heating to a temperature from 60°C to 350°C, wherein cations, anions and uncharged molecules are present in equilibrium in the ionic liquid.

- 2. (Canceled)
- 3. (Currently amended) The process according to claim $\frac{1}{2}$, wherein the cations, anions and uncharged molecules are formed by protonation or alkylation of the anions by the cations.
- 4. (Previously presented) The process according to claim 1, wherein the pressure is less than 200 mbar.
- 5. (Previously presented) The process according to claim 1, wherein the pressure is less than 50 mbar.
- 6. (Previously presented) The process according to claim 1, wherein the pressure is less than 5 mbar.
- 7. (Previously presented) The process according to claim 1, wherein the temperature is from 100°C to 350°C.

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8. (Previously presented) The process according to claim 1, wherein the temperature is

from 150 to 350°C.

9. (Previously presented) The process according to claim 1, wherein at least two uncharged

molecules are formed in the process, and at least two of the uncharged molecules are distilled

off.

10. (Previously presented) The process according to claim 9, wherein the at least two of the

uncharged molecules which have been distilled off are recombined again to form an ionic liquid.

11. (Previously presented) The process according to claim 9, wherein one of the two

uncharged molecules which have been distilled off is used to prepare a an ionic liquid.

12. (Currently amended) Method for the purification of ionic liquids using the The process

according to claim 1, used for the purification of ionic liquids.

13. (Currently amended) Method for the recirculation of ionic liquids using the The process

according to claim 1, used for the recirculation of ionic liquids.

14. (Previously presented) The process according to claim 3, wherein the pressure is less

than 50 mbar.

15. (Previously presented) The process according to claim 3, wherein the more volatile of the

uncharged molecules that is distilled off is used to prepare an ionic liquid.

16. (Previously presented) The process according to claim 1, wherein uncharged molecules

are formed by protonation or alkylation of the anions by the cations.

17. (Previously presented) The process according to claim 16, wherein the more volatile

molecule of the uncharged molecules is distilled off and is used to prepare an ionic liquid.

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18. (Previously presented) The process according to claim 17, wherein the pressure is less

than 50 mbar and the temperature from 100°C to 350°C.

19. (Currently amended) The process according to claim-2 1, wherein uncharged molecules

are formed in the process and at least the more volatile of the uncharged molecules are distilled

off.

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